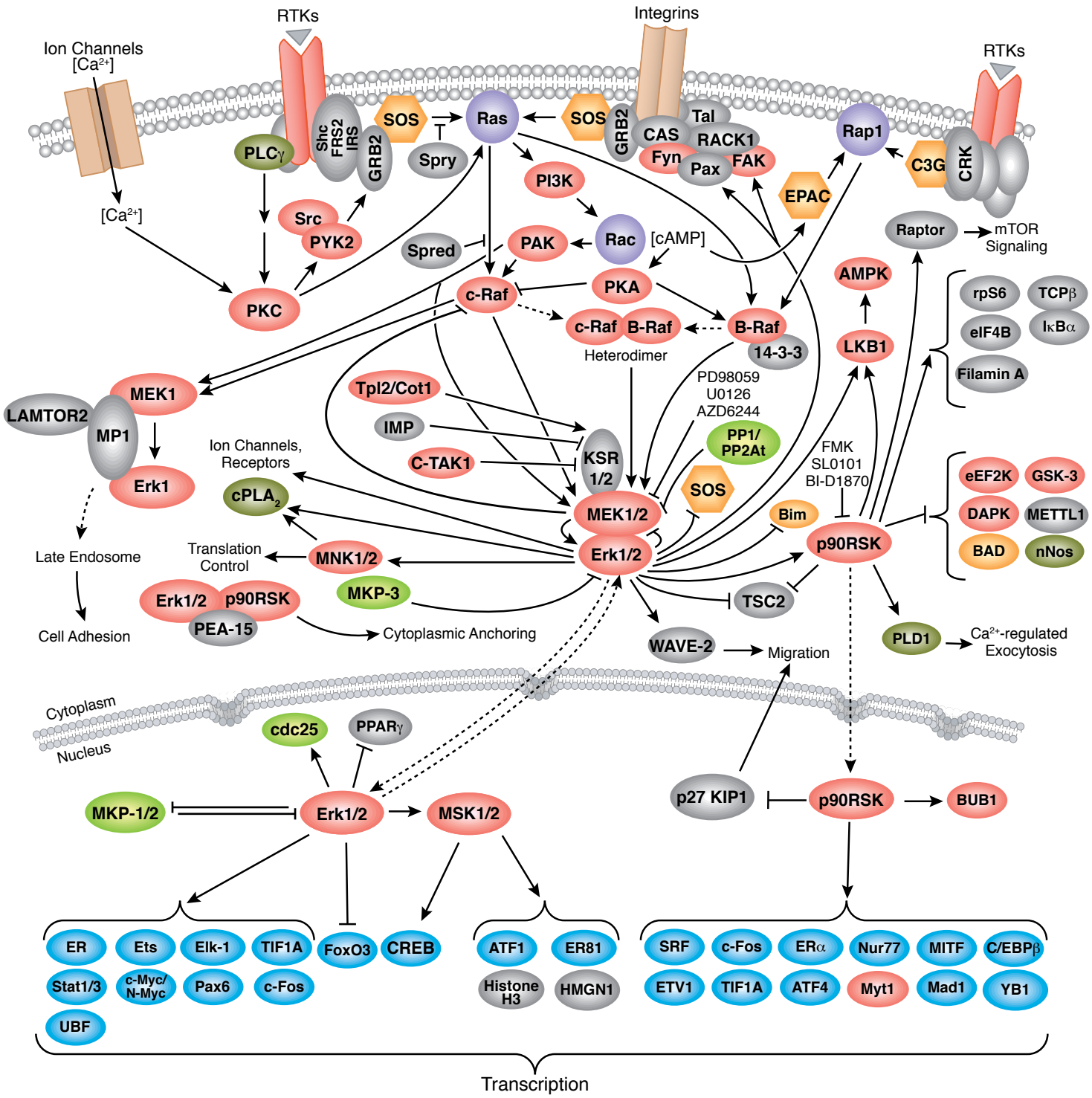
MAP Kinase Signaling

MAPK/Erk in Growth and Differentiation Pathway



For pathway key and background please visit:

www.cellsignal.com/cstmapk

Cell Signaling TECHNOLOGY®



Key Products for MAP Kinase Signaling

Visit **www.cellsignal.com/mapklist** for full listing of antibodies, related kits, and reagents.

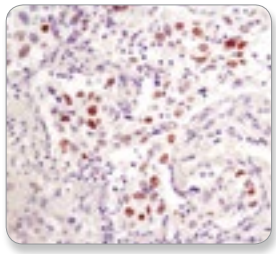
ANTIBODIES

		APPLICATIONS	REACTIVITY
#8662	ASK1 (D11C9) Rabbit mAb	WB, IP	H, M, R, Mk
#3765	Phospho-ASK1 (Thr845) Antibody	WB	H, (M)
#9226	ATF-2 (20F1) Rabbit mAb	WB, IP, IHC-P	H, M, R, Mk
#9221	Phospho-ATF-2 (Thr71) Antibody	WB, IP, IHC-P, IHC-F, IF-IC, F	H, M, R, Mk
#2250	c-Fos (9F6) Rabbit mAb	WB, IF-IC, F, ChIP	H, M, R, (Hm, B, Pg)
#5348	Phospho-c-Fos (Ser32) (D82C12) XP® Rabbit mAb	WB, IP, IF-IC, F, ChIP	H, M, R, (Hm, B, Pg, Hr)
#9165	c-Jun (60A8) Rabbit mAb	WB, IP, IHC-P, IHC-F, IF-IC, ChIP	H, M, R, Mk
#2361	Phospho-c-Jun (Ser63) (54B3) Rabbit mAb	WB, IHC-P	H, M, R
#3270	Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb	WB, IP, IHC-P, IF-IC, F, ChIP	H, M, R, Mk, Pg, (B)
#3058	DUSP6/MKP3 Antibody	WB	H
#3372	Erk5 Antibody	WB, IP	H, M, R, Mk
#3371	Phospho-Erk5 (Thr218/Tyr220) Antibody	WB	H, M, R, Mk
#9258	JNK2 (56G8) Rabbit mAb	WB	H, M, R, Hm, Mk, Mi
#3042	MAPKAPK-2 Antibody	WB, IP, F	H, M, R, Mk, (Hm)
#3007	Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb	WB, IHC-P, IF-IC, F	H, M, R, Mk
#2352	MEK1 (61B12) Mouse mAb	WB, IP	H, M, R, Mk
#9126	MEK1/2 (47E6) Rabbit mAb	WB	H, M, R, Mk, (Dg)
#9154	Phospho-MEK1/2 (Ser217/221) (41G9) Rabbit mAb	WB, IP	H, M, R, Mk, Dm, (C)
#4994	NIK Antibody	WB	H, M, (R, B, Hr)
#8690	p38 MAPK (D13E1) XP® Rabbit mAb	WB, IHC-P, IF-IC, F	H, M, R, Hm, Mk, Pg, (C)
#4511	Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP® Rabbit mAb	WB, IP, IHC-P, IF-IC, F	H, M, R, Mk, Mi, Pg, Sc, (Hm, C, Z, B, Pg)
#9216	Phospho-p38 MAPK (Thr180/Tyr182) (28B10) Mouse mAb	WB, IP, IF-IC, F	H, M, R, Mk, Sc, (Z)
#4695	p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb	WB, IP, IHC-P, IF-IC, F	H, M, R, Hm, Mk, Mi, Dm, Z, B, Dg, Pg, Ce, (C)
#4370	Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb	WB, IP, IHC-P, IF-IC, F	H, M, R, Hm, Mk, Mi, Dm, Z, B, Dg, Pg, Sc, (C, Ce)
#9106	Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (E10) Mouse mAb	WB, F	H, M, R, Hm, Mk, Mi, Dm, Z, B, Pg
#2708	p70 S6 Kinase (49D7) Rabbit mAb	WB, IHC-P	H, M, R, Mk
#9234	Phospho-p70 S6 Kinase (Thr389) (108D2) Rabbit mAb	WB	H, M, R, Mk, (C)
#9433	B-Raf (55C6) Rabbit mAb	WB	H, M, R, Mk
#2696	Phospho-B-Raf (Ser445) Antibody	WB	H, M, R, Mk, (C, Dg)
#9422	c-Raf Antibody	WB	H, M, R, Mk
#9421	Phospho-c-Raf (Ser259) Antibody	WB, IP	H, M, R, Mk, X, (C)
#9427	Phospho-c-Raf (Ser338) (56A6) Rabbit mAb	WB	H, M, R, Mk
#9252	SAPK/JNK Antibody	WB	H, M, R, Hm, Mk, Z, B, Sc
#4668	Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb	WB, IP, IHC-P	H, M, R, Dm, Sc
#9255	Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb	WB, IP, IF-IC, F	H, M, R, Hm, Sc
#9152	SEK1/MKK4 Antibody	WB, IP	H, M, R, Mk, (Dg)
#9156	Phospho-SEK1/MKK4 (Ser257/Thr261) Antibody	WB	H, M, R, Dm, (X, Z)
#5206	TAK1 (D94D7) Rabbit mAb	WB, IP	H, M, R
#9339	Phospho-TAK1 (Ser412) Antibody	WB, IP	H, M, R
#8955	Ras (D2C1) Rabbit mAb	WB	H, M, R, Mk
#14429	Ras (G12D Mutant Specific) (D8H7) Rabbit mAb	WB	H, (M, R)
#14412	Ras (G12V Mutant Specific) (D2H12) Rabbit mAb	WB	H, (M, R)
#9355	RSK1/RSK2/RSK3 (32D7) Rabbit mAb	WB, IP, IF-IC	H, M, R, Mk
#11989	Phospho-p90RSK (Ser380) (D3H11) Rabbit mAb	WB, IHC-P, IF-IC	H, M, R, Mk, Mi, (C, X, Z, B, Dg, Pg, Hr)

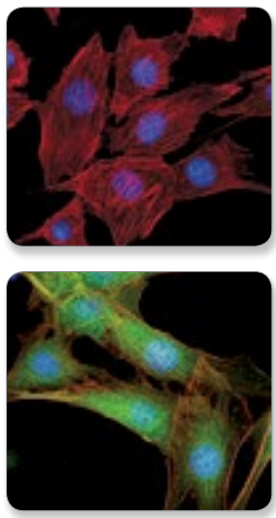
ELISA KITS

#7274	PathScan® MAP Kinase Multi-Target Sandwich ELISA Kit
#7029	PathScan® Phospho-MEK1 (Ser217/221) Chemiluminescent Sandwich ELISA Kit
#7946	PathScan® Phospho-p38 MAPK (Thr180/Tyr182) Sandwich ELISA Kit
#7177	PathScan® Phospho-p44/42 MAPK (Thr202/Tyr204) Sandwich ELISA Kit
#7849	PathScan® Phospho-SAPK/JNK (Thr183/Tyr185) Chemiluminescent Sandwich ELISA Kit

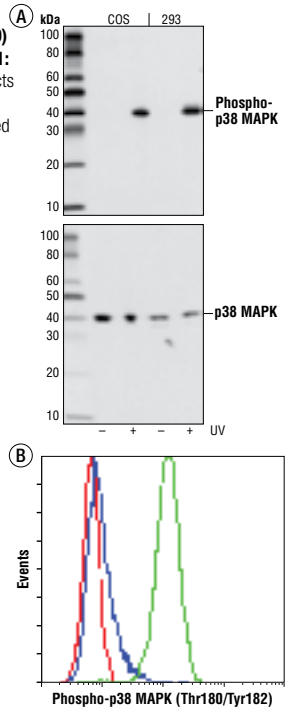
Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb #3270: IHC analysis of paraffin-embedded human lung carcinoma using #3270.



Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb #4370: Confocal IF analysis of C2C12 cells, treated with U0126 #9903 (10 µM, 1 hr; top) or TPA #9905 (200 nM, 15 min; bottom), using #4370 (green). Actin filaments were labeled with Alexa Fluor® 555 Phalloidin #8953 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Phospho-p38 MAPK (Thr180/Tyr182) (D3F9) XP® Rabbit mAb #4511: WB analysis **(A)** of extracts from COS and 239 cells, untreated (-) or UV-treated (+) using #4511 (upper) or p38 MAPK Antibody #9212 (lower). Flow cytometric analysis **(B)** of Jurkat cells, untreated (blue) or treated with Anisomycin #2222 (green), using #4511 compared to a nonspecific negative control antibody (red).



APPLICATIONS & REACTIVITY KEY: **WB** Western Blotting / **IP** Immunoprecipitation / **IHC** Immunohistochemistry / **IF** Immunofluorescence / **F** Flow Cytometry / **ChIP** Chromatin Immunoprecipitation / **-IC** Immunocytochemistry / **-P** Paraffin / **-F** Frozen / **E-P** Peptide ELISA / **H** human / **M** mouse / **R** rat / **Hm** hamster / **Mk** monkey / **C** chicken / **Mi** mink / **Dm** D. melanogaster / **X** Xenopus / **Z** zebra fish / **B** bovine / **Dg** dog / **Pg** pig / **Sc** S. cerevisiae / **All** all species expected / **( )** 100% sequence homology

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